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Work Ord	er ID 60332 5, 2010 10:41:57 AM					rive to	Tano
Revision ID: Item Name:	D412-702-345 4-Man Aft Facing Shoulder Ha	rness, 3 point	Accept			Setup	Start Page 1
C1	7/5/2010 Start Oty: 1	.00		Cust I	tem ID: mer:		Stop
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NOTE: Date & initial all entries

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Work Order ID 60332 Monday, July 05, 2010 10:41:57 AM Item ID: D412-702-345 Accept Setup **Revision ID:** Start Item Name: 4-Man Aft Facing Shoulder Harness, 3 point Stop **Start Date:** 7/5/2010 Start Qty: 1.00 Cust Item ID: Required Date: 7/6/2010 Req'd Qty: 1.00 Customer: Reference: Approvals: Process Plan: Date: Tooling: Run Start Date: QC: ______ Date: ____ SPC (Y/N): Stop Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan **Work Center ID** Accept Reject Description Reject **Run Hours** Code **Qty** 130 Qty Number Stamp 0.00 Packaging. Packaging Memo 0.00 Packaging Identify and pack for shipping as per PPP D412-702-345 mp 10-9-6 Location:___ PPP Rev: 140 QC21- Final Inspection - Work Order Release 0.00

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Page 2

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Monday, July 05, 2010 10:41:	56 AM						-	D- 1
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Item I)	ement Mfg/ D Purch	Bin Prin Item Loc	mary Last ation Location	Route Seg ID	Unit of Measure	Qty on e Hand	Qty per Kit Total	Qty Date Status
D412-702-311	Manufactured	No		110	Each	0.0000	Qty	Issued Issued
D412-702-313		No		110	Each	0.0000	60	328
Harness Assembly D412-702-321 Harness Assembly		No	,	110	Each	0.0000	1 1.	329
D412-702-323 7 Harness Assembly	Manufactured	No		110	Each	0.0000	1 1 1 G s 3	
D3572-041 Guide Assembly	Manufactured	No		110	Each	12.0000	<u>6.3</u>	31
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Part No	: <u> </u>	2-702-345 PAR #:	Fault Ca	itegory: Large Fob. NO	RYes	No DQA		Date: _	007.06
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section B Action Description Chief Eng	Sign &	Verific Section		Approval Chief Eng	Approval QC Inspector
0-0704	118	13572-041 guide B#58451 Fabricated wrong. lobes @ end of guide that attach to apright on sent buck uneven. coursing. 257 to be too close to edge of	/osur	D3572-041 B#58451x1 Kinspect + ensure that	er	100	8	Osup	100702
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Work Order ID: 60332 Parent Item: D412-702-345 Parent Item Name: 4-Man Aft Facir	g Shoulder Harness		140						
AN4-25A	Purchased	No		110	Each		tart Date: Start Qty:		Required Date: 7/6/2010 Required Qty: 1.00
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<u>AN960JD416</u> NAS1149D046;	^{3J} Purchased	No	ST360 - 113538 - 114752		56 6 50	Loc Code		113538	
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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3

REF TCCA STC SH04-7 REF FAA STC SR01997NY REF EASA STC EASA.I.M.R.S.00710 REFERENCE ONLY



This service instruction adds several kits equipped with improved inertia reels:

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-343** 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-345** 4-Man Shoulder Hamess Kit provides 3-point hamesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the hamesses. The hamesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-349** 1-Man Shoulder Hamess Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The hamess for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service inst uction.

The Dart **D412-702-351** 1-man 3-point shoulder hamess kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/-052B kits, as detailed in Table 1 of this service instruction.

The Dart **D214-702-337** 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart **D205-702-353** 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

CANADA

DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

APPROVED

BY:

D. SHEPHERD (DE # 02)

DATE:

10.03.22

CERT. NO.:
SH04-7

ISSUE NO .:

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REV.			DESCRIPTION	BY	DATE			
DESIGN		P	DART AEROSE	ACE	ITD			
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MFG. AF	PPR.	N/A	DSI 9511	s	HEET 1 OF 6			
APPRO\	/ED	140,	TITLE		SCALE			
DE APPI	₹.	_#	NEW SHOULDER HARNES	SKITS	NTS			
DATE	10.03	3.18	COPYRIGHT @ 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSS OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.					



INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

D. 111		
Part Number	Description	Install similar to:
D412-702-341	Shoulder Harness Kit	D412-702-041B (IIN-D412-702, DSI 9408)
D412-702-343	Shoulder Harness Kit	D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)
D412-702-345	Shoulder Harness Kit	D412-702-045B (IIN-D412-702, DSI 9469)
D412-702-347	Shoulder Harness Kit	D412-702-047B (IIN-D412-702, DSI 9408)
D412-702-349	Shoulder Harness Kit	D412-702-049B (IIN-D412-702, DSI 9408)
D412-702-351	Shoulder Harness Kit	D412-702-051B (LH) (DSI 9397, DSI 9408) D412-702-052B (RH) (DSI 9397, DSI 9408)
D214-702-337	Shoulder Harness Kit	D214-702-037B (DSI 9454)
D205-702-353	Shoulder Harness Kit	D205-702-053B (DSI 9460)
D412-702-301	Harness Assembly	D412-702-101B (IIN-D412-702)
D412-702-303	Harness Assembly	D412-702-103B (IIN-D412-702)
D412-702-305	Harness Assembly	D412-702-105B (IIN-D412-702)
D412-702-307	Harness Assembly	D412-702-107B (IIN-D412-702)
D412-702-309	Harness Assembly	D412-702-109B (IIN-D412-702)
D412-702-311	Harness Assembly	D412-702-111B (IIN-D412-702)
D412-702-313	Harness Assembly	D412-702-113B (IIN-D412-702)
D412-702-315	Harness Assembly	D412-702-115B (IIN-D412-702)
D412-702-317	Harness Assembly	D412-702-117B (IIN-D412-702)
D412-702-319	Harness Assembly	D412-702-119B (DSI 9454)
D412-702-321	Harness Assembly	D412-702-121B (DSI 9454, DSI 9469)
D412-702-323	Harness Assembly	D412-702-123B (DSI 9454, DSI 9469)
		(Doi 5707, Doi 8408)

CANADA
-DEPARTMENT-OF-TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

DESIGN	P	DART AEROSPACE LTD						
DRAWN	97	HAWKESBURY, ONTARIO, CANADA						
CHECKED	B	DRAWING NO	V. A					
MFG. APPR.	N/A	DSI 9511 SHEET 2						
APPROVED	10	TITLE	CALE					
DE APPR.	-#-	NEW SHOULDER HARNESS KITS	NTS					
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION TO NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WIT WITTEN PERMISSION FROM DATA AEROSPACE LTD.						

PARTS LIST

REFERENCE ONLY

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QTY -341	-343	-345	QTY -347	QTY -349	QTY -351	Dart Number	r Description
X	-	ļ	ļ			D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
	X	 				D412-702-343	Dart 5-Man 3-Point Forward Facin Shoulder Harness Kit
	 	X	<u> </u>	 		D412-702-345	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
	 -	 	X	ļ	ļ	D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
	ļ	ļ		X		D412-702-349	Dart 1-Man 3-Point Forward Shoulder Harness Kit
					X	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
_1	1		1	1		D412-702-059	GROMMET KIT
9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP (DSI 9408
2	11		1		<u> </u>	D412-702-301	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D3573-7	ADAPTER
1*	1*		1*			D4088-041	SHOULDER HARNESS (NEW)
4*	4*		4*			MS24693S2F2	SCREW
4*	4*		4*			AN960JD10LL	WASHER
4*	4*		4*			MS21042L3	NUT
2	1		1			D412-702-303	HARMEGO AGGELERA
1*	1*		1*			D3573-8	HARNESS ASSEMBLY (NEW)
1*	1*		1*			D4088-041	ADAPTER
4*	4*		4*			MS24693S272	SHOULDER HARNESS (NEW)
4*	4*		4*			AN960JD10LL	SCREW
4*	4*		4*			MS21042L3	WASHER
_	-					1002 1042L3	NUT
1 1*	1			1		D412-702-305	HARNESS ASSEMBLY (NEW)
1+	1*			1*		D3573-1	ADAPTER
4*				1*		D4088-041	SHOULDER HARNESS (NEW)
4*	4*			4*		MS24693S273	SCREW
4*	4*			4*		AN960JD10LL	WASHER
	4			4*		MS21042L3	NUT
1	1				1	D412-702-307	HARNESS ASSEMBLY (NEW)
1*	1*				1*	D3573-3	ADAFTER (NEW)
	1*				1*	D4088-041	SHOULDER HARNESS (NEW)
4*	4*					MS24693S272	SCREW (NEW)
4*	4*					AN960JD10LL	WASHER
4*	4*					MS21042L3	NUT
1	1				+	D412-702-309	HADNEGO AGOELEN
*	1*					D3573-3 —	HARNESS ASSEMBLY (NEW)
*	1*					D4088-041	-ADAPTER
							SHOULDER HARNESS (NEW)
*	4*		- I			MS246028272	CODEIN
	4*					MS24693S272 AN960JD10LL	SCREW WASHER

* denotes that part is included in assembly above

CANADA -DEPARTMENT-OF-TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO#01-O-01

BY: D. SHEPH#RD (DE # 02)

DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

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MFG. APPR.	N/A	DSI 9511 SHEET	EV. A			
APPROVED	10.	TITLE				
DE APPR.	-#	NEW SHOULDER HARNESS KITS	CALE			
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND COMFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE! TO				

REFERENCE ONL

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1	QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
1°	1	 	1				D412-702-311	HARNESS ASSEMBLY (MEAN)
1* 1* D4088-043 SHOULDER HARNESS (NEW) 4* 4* MS24694550 SCREW 4* 4* AN960J010L WASHER 4* 4* MS21042L3 NUT 1 1 D412-702-313 HARNIESS ASSEMBLY (NEW) 1* 1* D3570-2 BRACKET 1* 1* D4088-043 SHOULDER HARNESS (NEW) 4* 4* MS24694S50 SCREW 4* 4* AN960JD10L WASHER 4* 4* AN960JD10L WASHER 4* 4* AN960JD10L WASHER 1* 1 D412-702-315 HARNESS ASSEMBLY (NEW) 1* 1* D4088-041 SHOULDER HARNESS (NEW) 4* 4* AN960JD10L WASHER 4* 4* AN960JD10L WASHER 4* 4* AN960JD10L WASHER 4* 4* AN960JD10L WASHER 4* 4* AN960JD10L <	1*		1*					PRACKET (NEW)
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4* 4* AN960JD10L WASHER								SHOULDER HARNESS (NEW)
4* A* WASHER		_			-+			
		-+	4*				MS21042L3	WASHER NUT

* denotes that part is included in assembly above

continued next page...

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22
CERT. NO.: SH04-7
ISSUE NO.: 3

DESIGN	9	DART AEROSPACE L	TD			
DRAWN	9?	HAWKESBURY, ONTARIO, CANADA				
CHECKED	4	DRAWING NO.	REV. A			
MFG. APPR.	N/A	DOLOGAA	EET 4 OF 6			
APPROVED	10	TITLE	SCALE			
DE APPR.	-#	NEW SHOULDER HARNESS KITS				
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... continued from previous page

QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
2	2					D3542-1	BRACKET
7	3		4	1		D3571-1	GUIDE
2	2					D3571-3	GUIDE
2		_2				D3572-041	GUIDE ASSEMBLY
12	6		6	2		D3578-041	DOUBLER
2	2					D3610-041	BRACKET
2	2					D3618-1	CAP
4	4					AN4-10A	BOLT
2		2				AN4-16A	BOLT
4		4				AN4-25A	BOLT
4		4				AN4-27A	BOLT (DSI 9469)
2	2					AN4-44A	BOLT
2	2					MS24693S274	SCREW
3	3			1		MS24694S56	SCREW
10	2		8			MS24694S58	SCREW
1	1			_1		MS24694S60	SCREW
26	6	20				AN960JD416	WASHER
4	4					AN960JD416L	WASHER
12	6	6				MS21042L4	NUT
24	_12 _		12	4		CR3212-4-4	RIVET

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE: 10.03.22 CERT. NO.: SH04-7 ISSUE NO.: 3

DESIGN	9	DART AEROSPACE LTD				
DRAWN 93		HAWKESBURY, ONTARIO, CANADA				
CHECKED	_ b	DRAWING NO. REV	Δ			
MFG. APPR.	N/A	DSI 9511 SHEET 5 0				
APPROVED	14	TITLE	ALE			
DE APPR.	#	MEW CHOLLIDED LIABATEGO LOTO	NTS			
DATE 10.0	3.18	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.				